PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:
BEDZYK ET AL.

CASE NO.: **CL1686 US DIV**

APPLICATION NO.: **UNKNOWN**

GROUP ART UNIT: **UNKNOWN**

FILED: **CONCURRENTLY HEREWITH**

EXAMINER: **UNKNOWN**

FOR: **NATURAL PROMOTERS FOR GENE EXPRESSION AND METABOLIC MONITORING IN BACILLUS SPECIES**

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

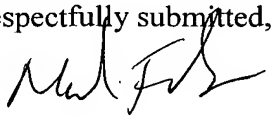
Sir: .

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08B . A copy of the information is also enclosed.

Benefit of the earlier filing date of U.S. Patent Application No. 09/891,641, filed June 26, 2001 is claimed under 35 USC 120 for the above-referenced application. Thus, information cited in the priority application is not supplied with this Information Disclosure Statement.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,



S. NEIL FELTHAM
Attorney for Applicant(s)
Registration No. 36,506
Telephone: (302) 992-6460
Facsimile: (302) 892-7949

Dated: 6/24/03

Enclosures

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	UNKNOWN
Filing Date	CONCURRENTLY HEREWITH
First Named Inventor	BEDZYK ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	CL1686 US DIV

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number Number – Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			
		US -			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document CountryCode[3]	Number[4]	Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		WO	88/02025	A1	03/24/1988	SRI International		☐
		WO	92/14826	A1	09/03/1992	Ciba-Geigy AG		☐
		EPO	0410228	A1	01/30/1991	Enitricherche		☐
		WO	9100913	A1	01/24/1991	DuPont		☐
								☐
								☐
								☐
								☐
								☐

Examiner Signature		Date Considered	

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the tow-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols asindicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → [+]

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

2 of 2

Complete if Known	
Application Number	UNKNOWN
Filing Date	CONCURRENTLY HEREWITH
First Named Inventor	BEDZYK ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	CL1686 US DIV

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		Stragier, P. et al., Molecular Genetics of Sporulation in Bacillus Sbutilis, Annu. Rev. Genet., Vol. 30, pp 297-341, 1996	
		Lazazzera, B. A. ,Quorum sensing and starvation: signals for entry into stationary phase, Curr. Opin. Microbiol. Vol. 3: pp. 177:182, 2000	
		Msadek, When the going gets tough: survival strategies and environmental signaling networks in Bacillus subtilis, T. Trends Microbiol. Vol. 7:pp, 201-207, 1999	
		Nakano et al., Anaerobic Growth of a "Strict Aerobe" (Bacillus Subtilis), Annu. Rev. Microbiol., Vol.52, 165-190, 1998	
		Sun et al., Regulators of Aerobic and Anaerobic Respiration in Bacillus subtilis, J. Bacteriol. Vol. 178: pp. 1374-1385	
		DeRisi et al., Exployring the Metabolic and Genetic Control of Gene Expression on a Genomic Scale, Science, Vol. 278: pp. 680-686, 1997	
		Shimosaka et al., Molecular cloning and characterization of a chitosanase from the chitosanolytic bacterium Burkholderia gladioli strain CHB101, Appl. Microbiol. Biotechnol. Vol. 54(3), pp. 354-360, 2000	
		Masson et al., Primary Sequence of the shitosanase from Streptomyces sp. Strain N174 and comparison with other endoglycosidases, Gene, Vol. 140(1), pp. 103-107, 1994	
		Seki et al., Molecular Cloning of the Gene Encoding Chitosanase from Bacillus amyloliquiefaciens UTK, Adv. ChitinSci., Vol. 2, pp. 284-289, 1997	
		Kunst et al., The complete genome sequence of the Gram-positive bacterium Bacillus subtilis, Nature, Vol. 390(6657), pp. 249-256, 1997	
		Fawcett et al., The Transcriptional profile of early to middle sporulation in Bacillus subtilis, Harvard University, Department of Molecular and Cellular Biology, Vol. 97, pp 8063-8068. July 5, 2000	
		CHING-PING TSENG ET AL., Effect of microaerophilic cell growth conditions on expression of the aerobic (cyoABCDE and cydAB) and anaerobic (narGHIJ, frdABCD, and dmsABC) respiratory pathway genes in Escherichia coli", Journal of Bacteriology, Vol. 178, NO. 4, February 1996, pp. 1094-1098 XP002198735	☐
		MICHIKO NAKANO ET AL., Adaptation of Bacillus subtilis to oxygen limitation, FEMS Microbiology Letters, Vol. 157, No. 1, 1997, pp. 1-7, XP002198736	☐
		HUGO CRUZ RAMOS ET AL., Anaerobic transcription activation in Bacillus subtilis: identification of distinct FNR-dependent and –independent regulatory mechanisms" EMBO Journal, Vol. 14, No. 23, 1995, pages 5984-5994, XP001059088	☐
		ROWLAND ET AL., Sequence and genetic organization of a Bacillus subtilis operon encoding 2,3-dihydroxybenzoate biosynthetic enzyme" Gene: An International Journal on Gene and Genomes, Elsevier Science Publishers, Vol. 178, No. 1, October 31, 1996, pp. 119-123 XP004043349	☐
		BELINDA ROWLAND ET AL., Duplicate isochorismate synthase genes of Bacillus subtilis: Regulation and involvement in the biosynthesis of Menaquinone and 2,3-dihydroxybenzoate", Journal of Bacteriology, Vol. 178, No. 3, 1996, pp. 854-861	☐
		DRZEWIECKI et al., The yvyD gene of Bacillus subtilis is under dual control of sigmaB and gibmaH", Journal of Bacteriology, Vol. 180, No. 24, December 1998, pp. 6674-6680, XP002206759	☐
		JEAN ROCH MEUNIER ET AL., Saccharomyces cerevisiae colony growth and ageing; BiPlasic growth accompanied by changes in gene expression", Yeast, Vol. 15, No. 12, September 15, 1999, pp. 1159-1169, XP008006068	☐

Examiner Signature		Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.